

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051602.D
 Acq On : 27 Sep 2018 23:25
 Operator : MD\SY
 Sample : J5096-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MT-T-5-2

Quant Time: Sep 28 01:55:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	628347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1039969	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	860222	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	319203	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	457345	58.10	ug/l	0.00
Spiked Amount			Recovery	=	116.20%	
35) Dibromofluoromethane	7.59	113	398322	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
50) Toluene-d8	10.09	98	1430890	45.69	ug/l	0.00
Spiked Amount			Recovery	=	91.38%	
62) 4-Bromofluorobenzene	12.40	95	392668	38.76	ug/l	0.00
Spiked Amount			Recovery	=	77.52%	

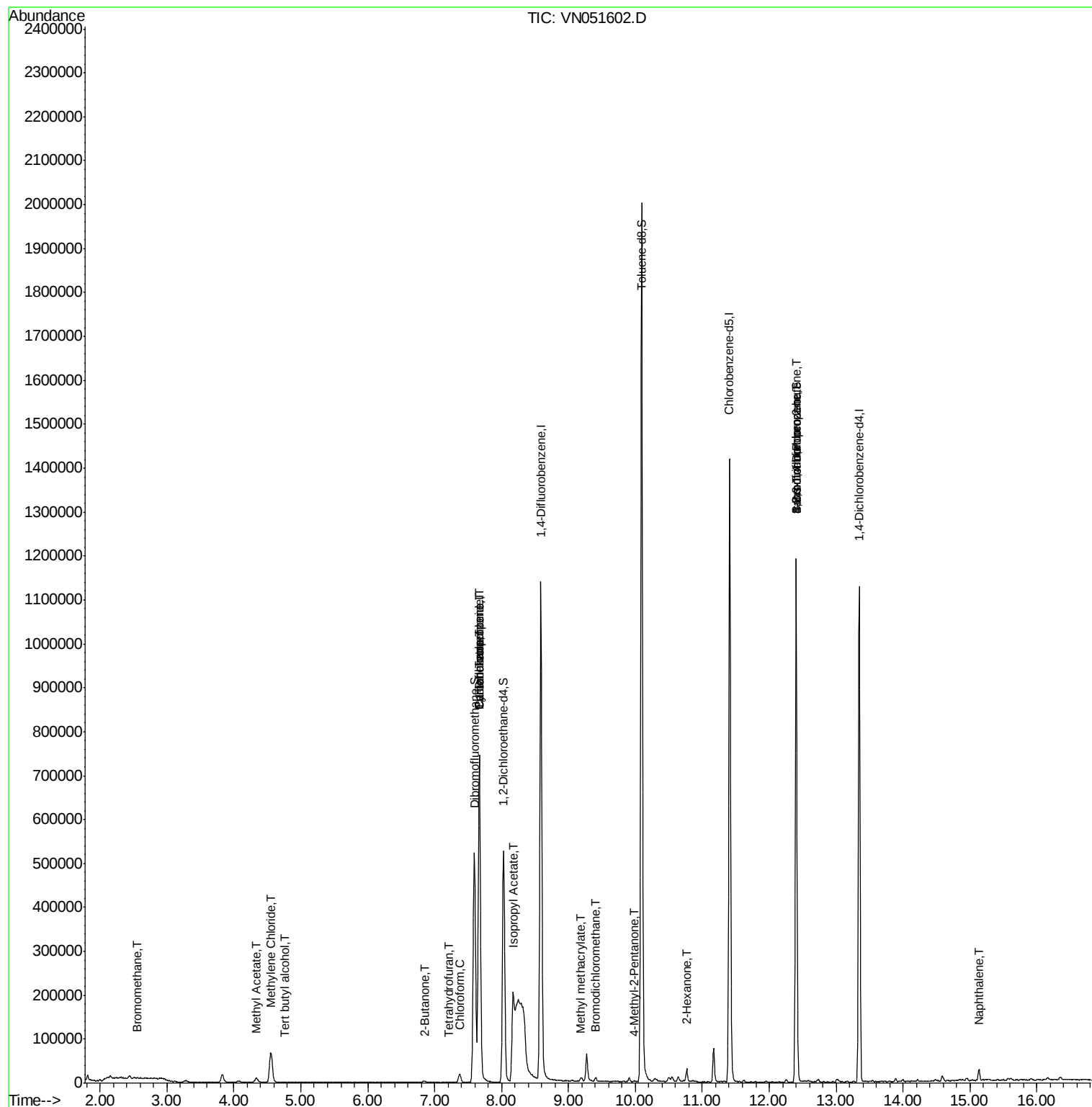
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	888	0.203	ug/l	81
11) Tert butyl alcohol	4.76	59	108	0.243	ug/l #	78
16) Acetone	3.82	43	29686	Below Cal		90
18) Methyl Acetate	4.34	43	20690	3.451	ug/l	95
20) Methylene Chloride	4.55	84	50527	6.487	ug/l	98
25) 2-Butanone	6.85	43	579	0.215	ug/l #	68
29) Tetrahydrofuran	7.21	42	610	0.357	ug/l #	48
30) Chloroform	7.37	83	20754	1.548	ug/l	99
31) Cyclohexane	7.67	56	11799	0.952	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47261	3.924	ug/l #	44
38) Carbon Tetrachloride	7.67	117	57802	4.589	ug/l #	16
43) Isopropyl Acetate	8.17	43	269911	21.557	ug/l #	85
47) Bromodichloromethane	9.41	83	5810	0.483	ug/l	99
48) Methyl methacrylate	9.18	41	3953	0.633	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	1933	0.281	ug/l #	70
59) 2-Hexanone	10.77	43	4629	1.037	ug/l #	54
71) Bromoform	12.40	173	4610	0.808	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	192689	36.363	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	192689	111.815	ug/l #	12
95) Naphthalene	15.14	128	20434	9.489	ug/l	99

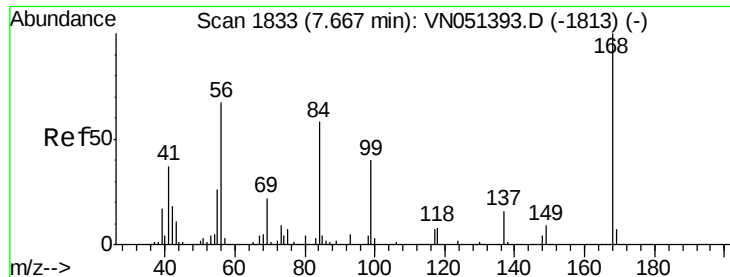
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_N

ClientSampleId :

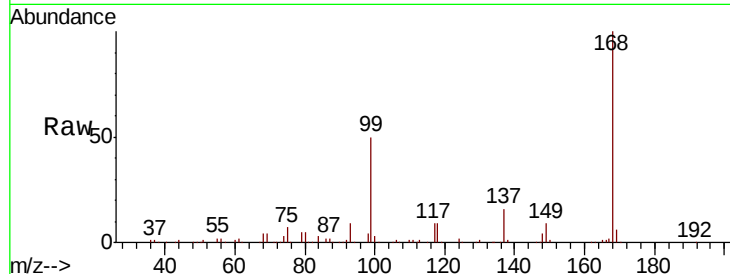
MT-T-5-2

Tot Ion:168 Resp: 628347

Ion Ratio Lower Upper

168 100

99 50.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

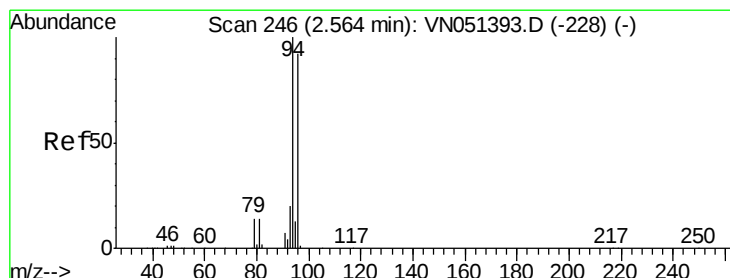
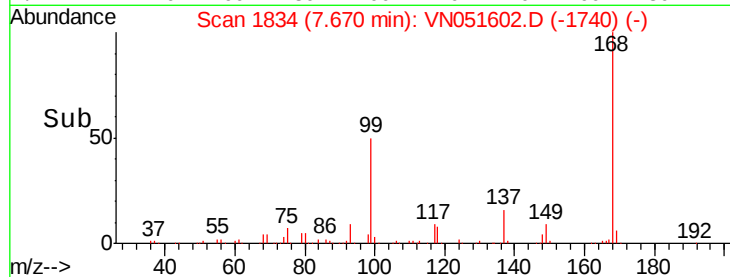
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.203 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051602.D

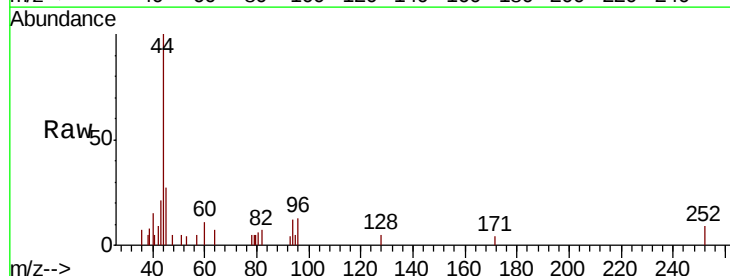
Acq: 27 Sep 2018 23:25

Tgt Ion: 94 Resp: 888

Ion Ratio Lower Upper

94 100

96 73.7 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

600

500

400

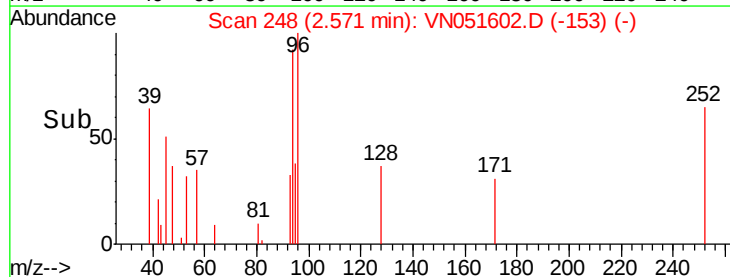
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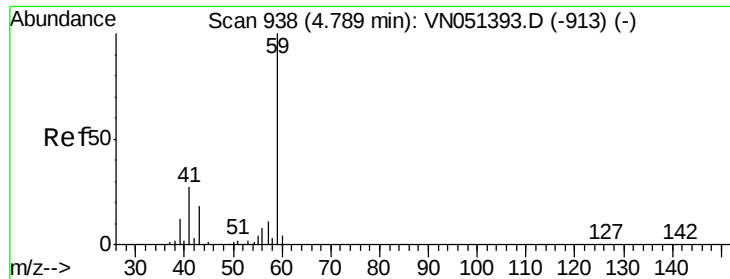
200

100

0

Time-->

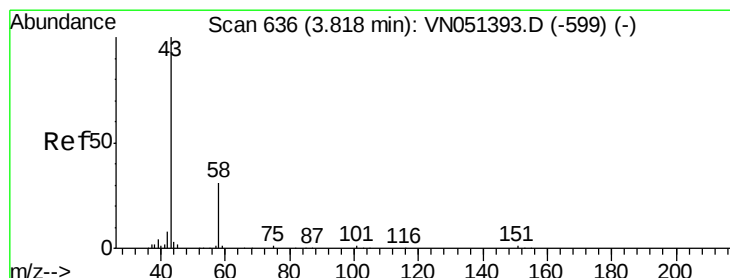
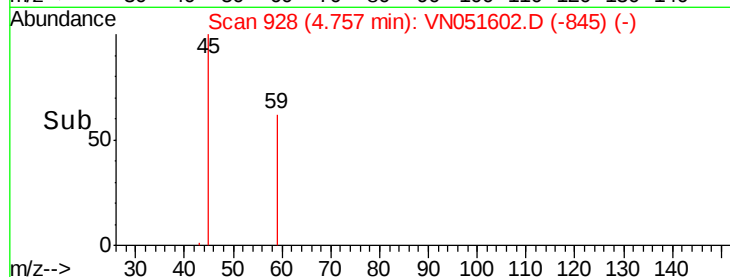
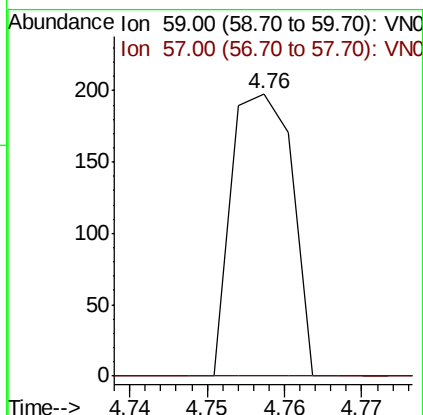
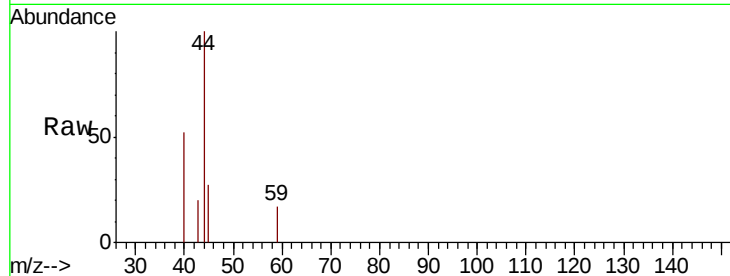




#11
Tert butyl alcohol
Concen: 0.243 ug/l
RT: 4.76 min Scan# 928
Delta R.T. -0.03 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

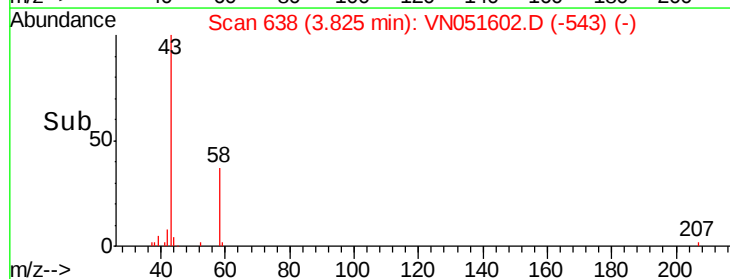
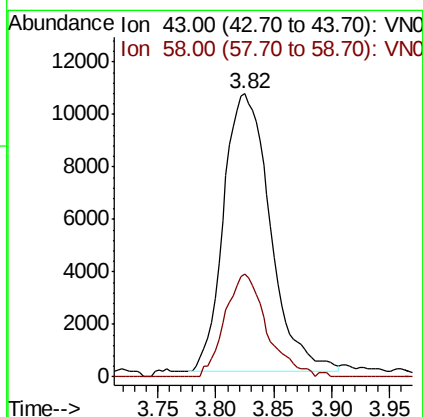
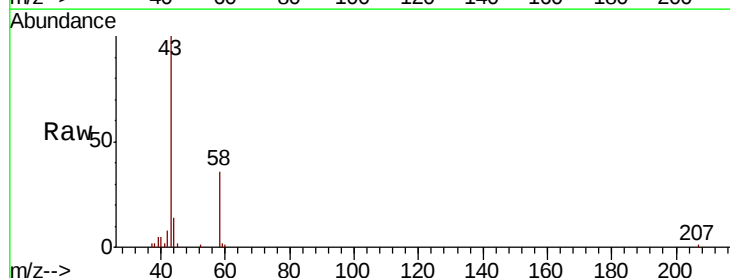
Instrument :
MSVOA_N
ClientSampled :
MT-T-5-2

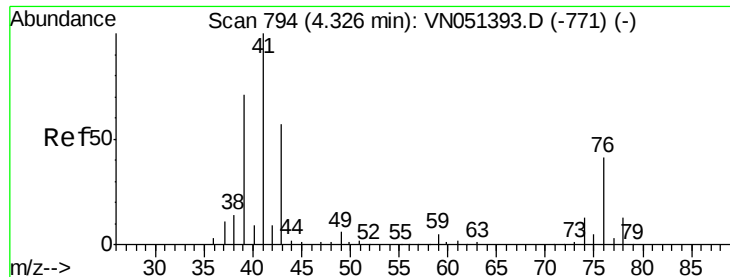
Tot Ion: 59 Resp: 108
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.2#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Tgt Ion: 43 Resp: 29686
Ion Ratio Lower Upper
43 100
58 36.9 25.0 37.4

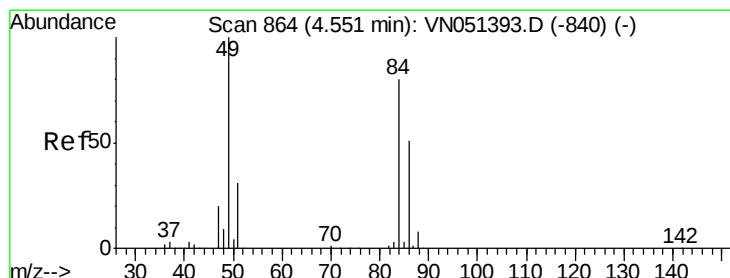
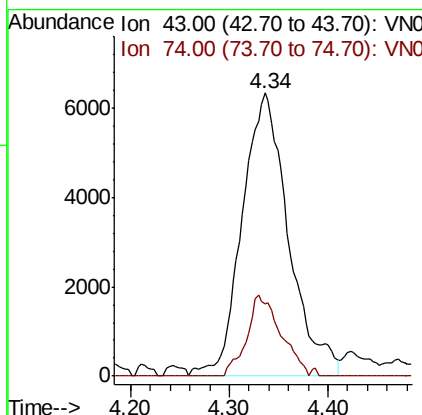
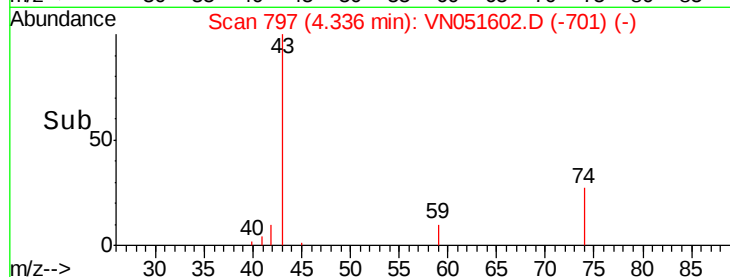
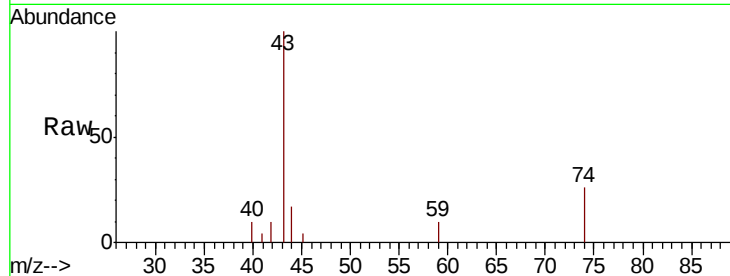




#18
Methyl Acetate
Concen: 3.451 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

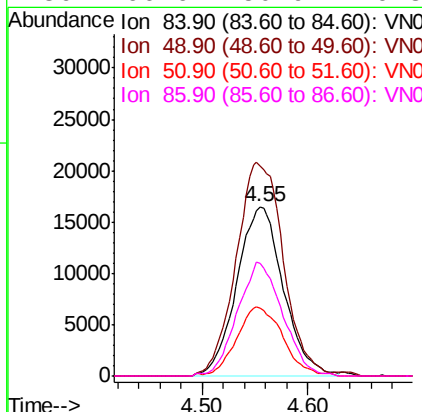
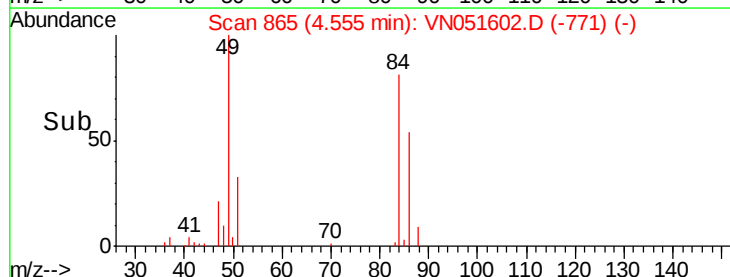
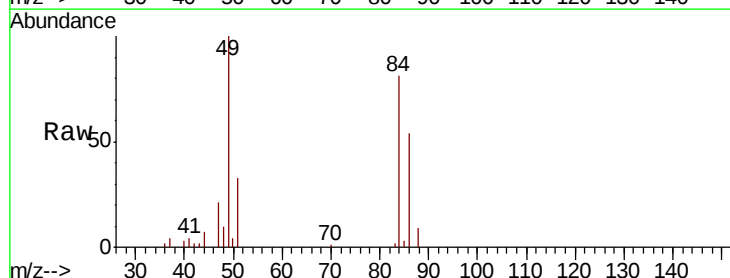
Instrument :
MSVOA_N
ClientSampleId :
MT-T-5-2

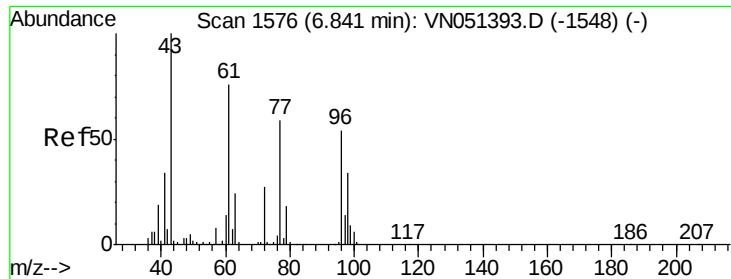
Tot Ion: 43 Resp: 20690
Ion Ratio Lower Upper
43 100
74 20.9 18.8 28.2



#20
Methylene Chloride
Concen: 6.487 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Tgt Ion: 84 Resp: 50527
Ion Ratio Lower Upper
84 100
49 124.2 99.9 149.9
51 40.5 31.4 47.2
86 66.6 50.9 76.3

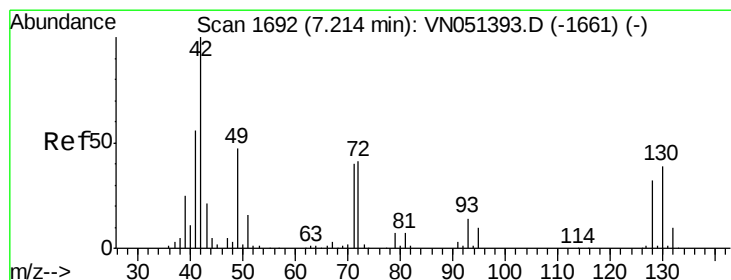
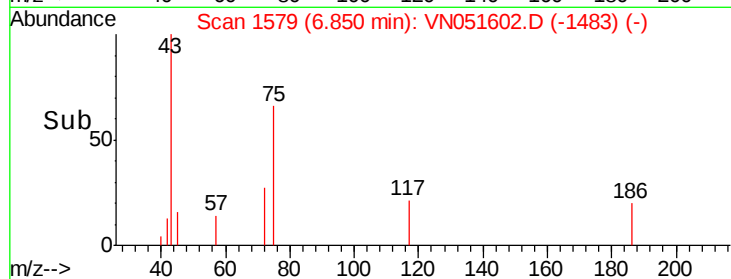
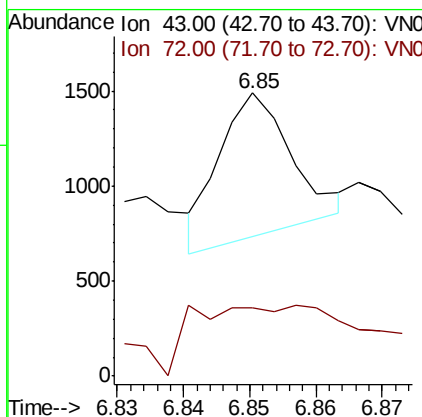
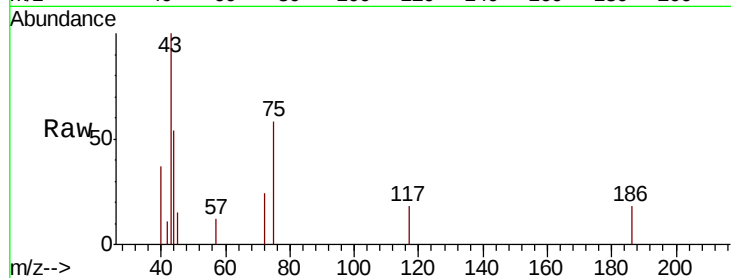




#25
2-Butanone
Concen: 0.215 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

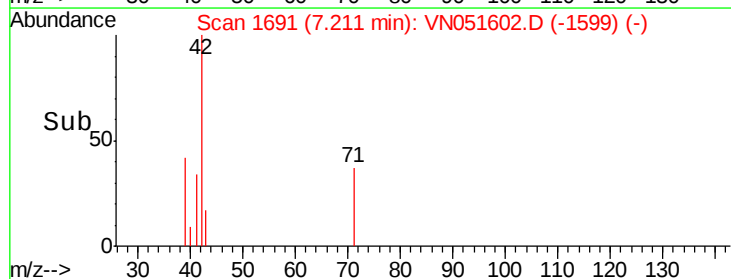
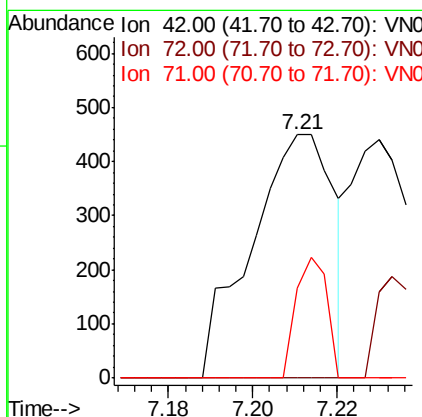
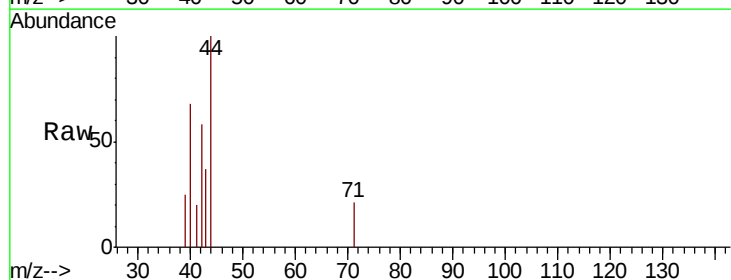
Instrument :
MSVOA_N
ClientSampled :
MT-T-5-2

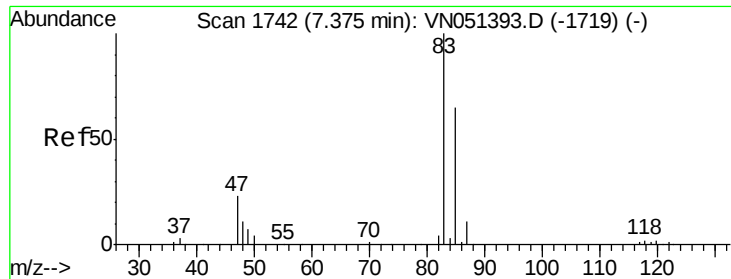
Tot Ion: 43 Resp: 579
Ion Ratio Lower Upper
43 100
72 10.4 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.357 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Tgt Ion: 42 Resp: 610
Ion Ratio Lower Upper
42 100
72 0.0 34.3 51.5#
71 18.4 32.2 48.4#

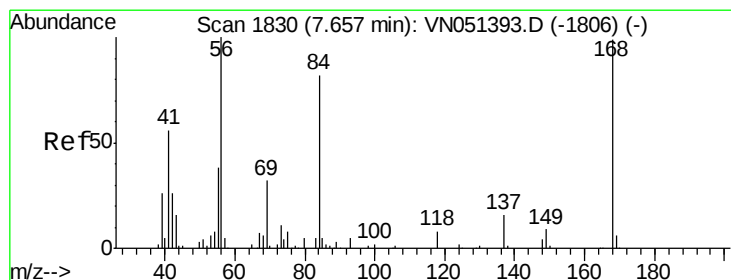
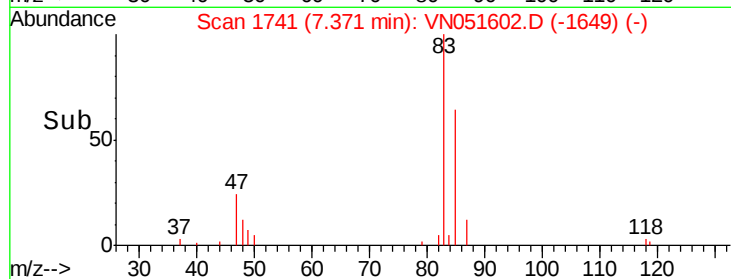
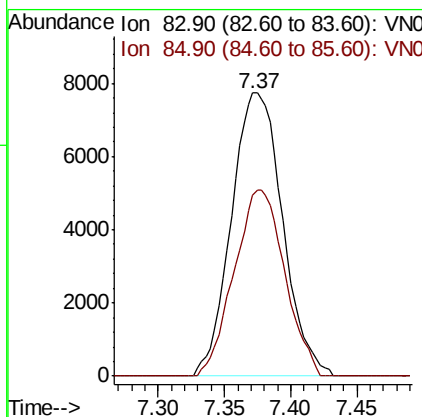
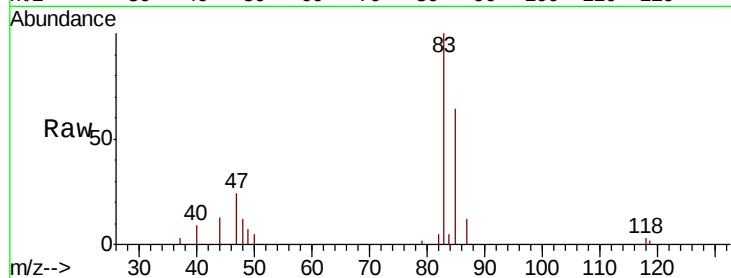




#30
Chloroform
Concen: 1.548 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

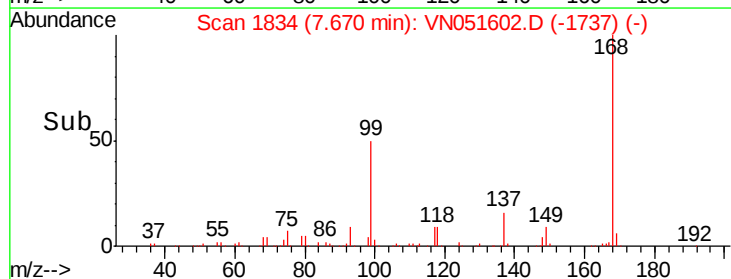
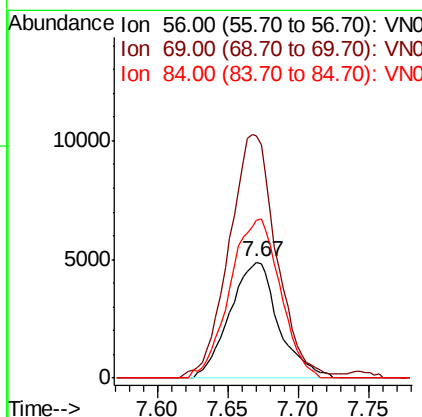
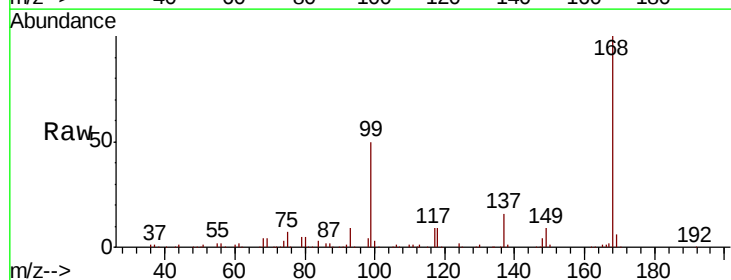
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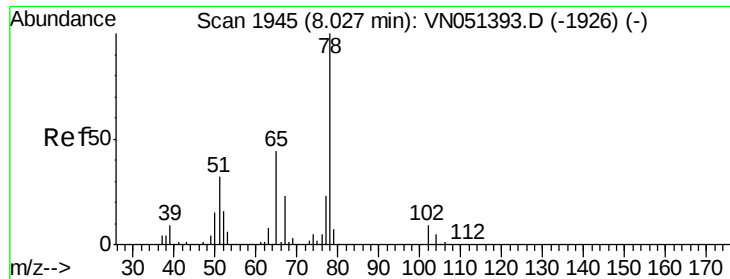
Tot Ion: 83 Resp: 20754
Ion Ratio Lower Upper
83 100
85 64.0 51.8 77.6



#31
Cyclohexane
Concen: 0.952 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Tgt Ion: 56 Resp: 11799
Ion Ratio Lower Upper
56 100
69 204.6 25.8 38.6#
84 135.9 66.0 99.0#

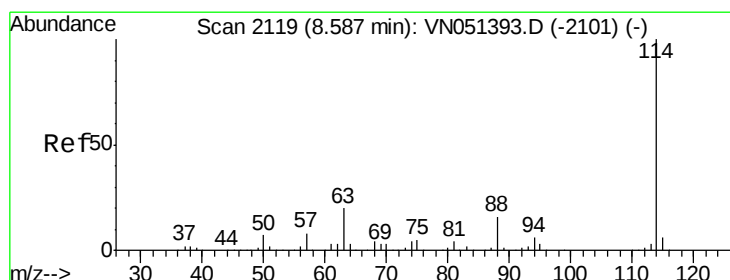
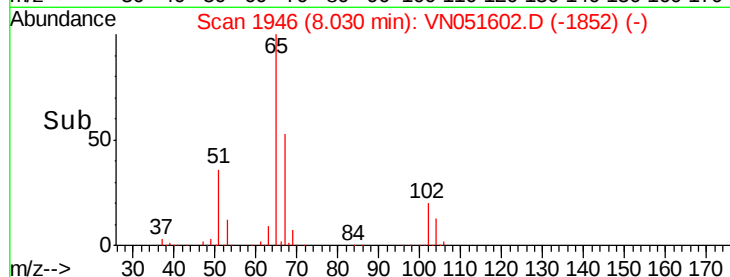
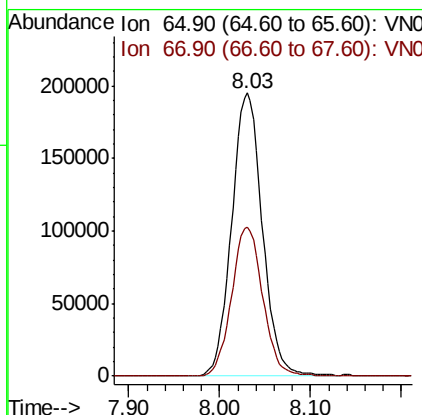
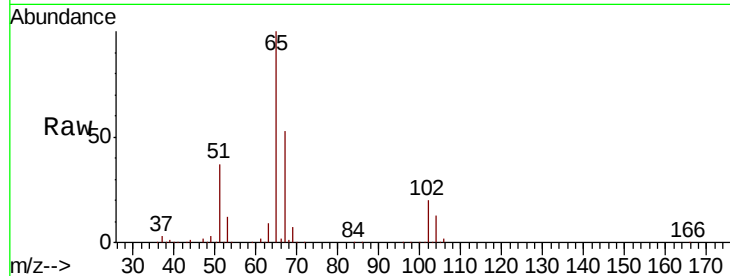




#33
 1,2-Dichloroethane-d4
 Concen: 58.104 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051602.D
 Acq: 27 Sep 2018 23:25

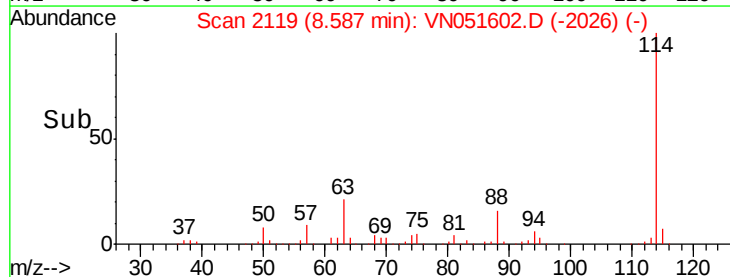
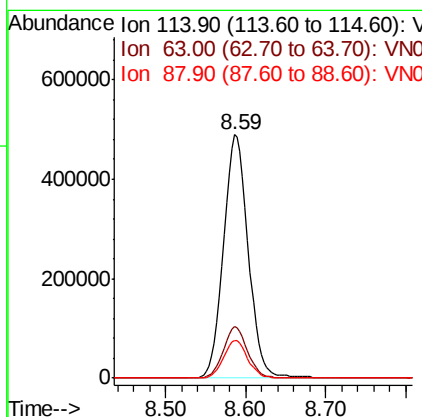
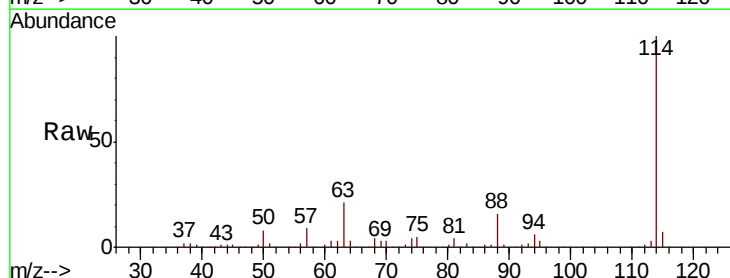
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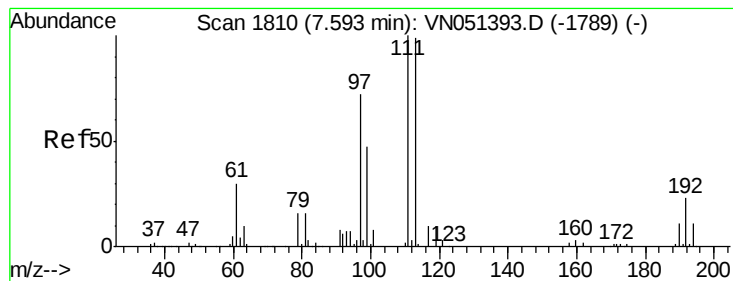
Tot Ion: 65 Resp: 457345
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051602.D
 Acq: 27 Sep 2018 23:25

Tgt Ion: 114 Resp: 1039969
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 40.2
 88 15.6 0.0 31.4





#35

Dibromofluoromethane

Concen: 47.897 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_N

ClientSampleId :

MT-T-5-2

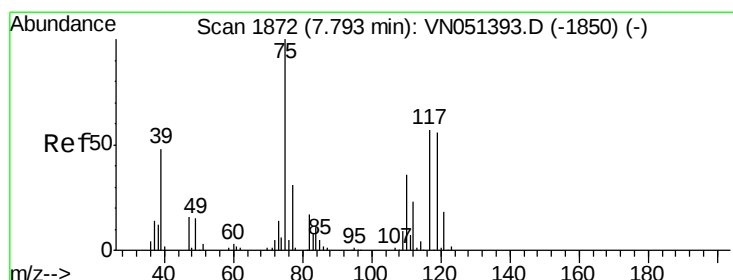
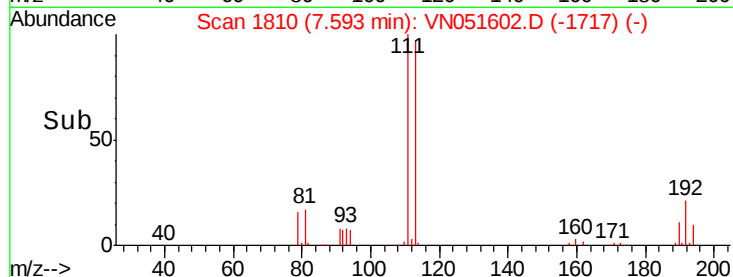
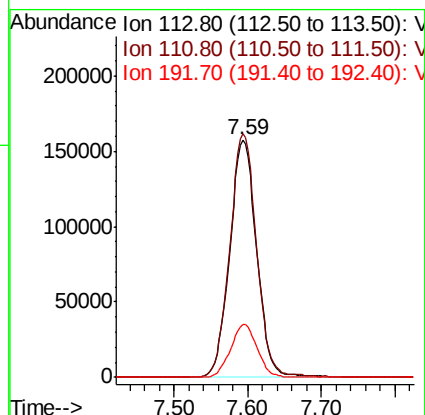
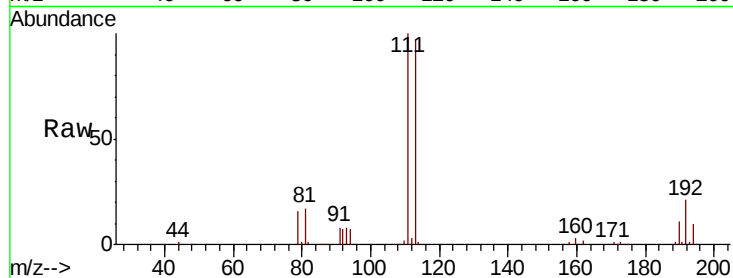
Tot Ion:113 Resp: 398322

Ion Ratio Lower Upper

113 100

111 102.4 82.6 123.8

192 22.1 18.0 27.0



#36

1,1-Dichloropropene

Concen: 3.924 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

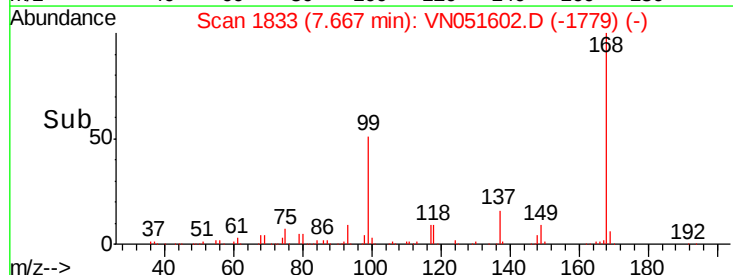
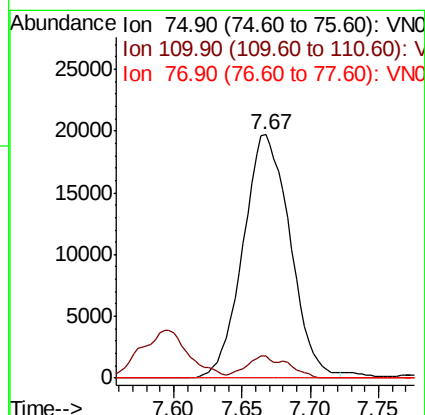
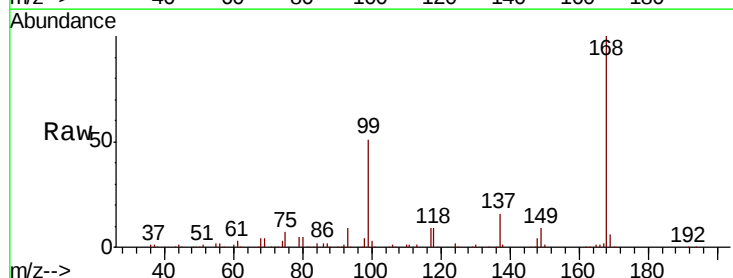
Tgt Ion: 75 Resp: 47261

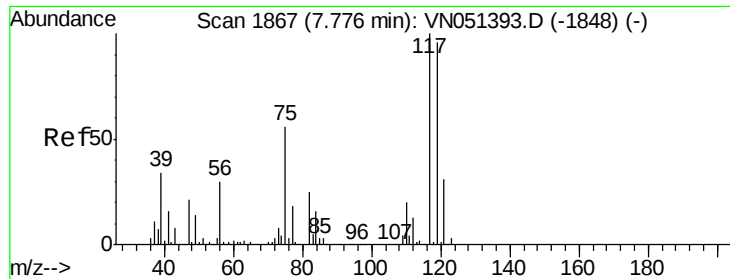
Ion Ratio Lower Upper

75 100

110 4.0 18.1 54.3#

77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 4.589 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_N

ClientSampleId :

MT-T-5-2

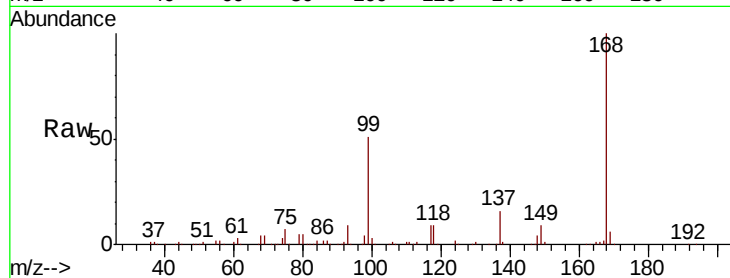
Tot Ion:117 Resp: 57802

Ion Ratio Lower Upper

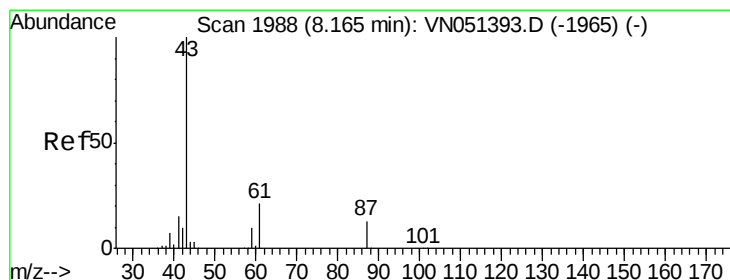
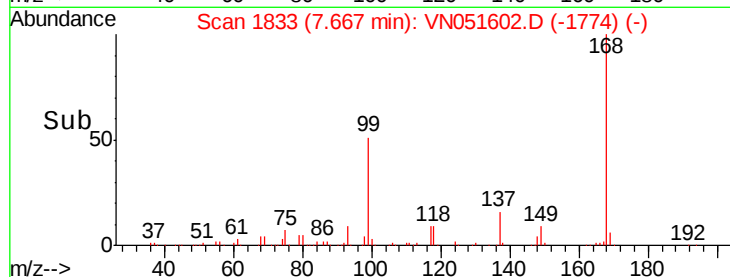
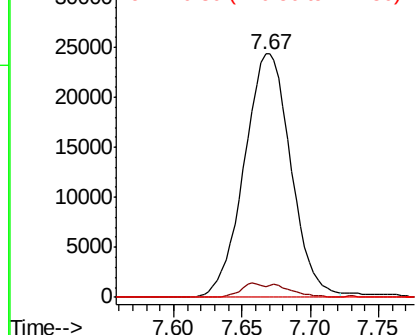
117 100

119 4.6 76.9 115.3#

121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 21.557 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

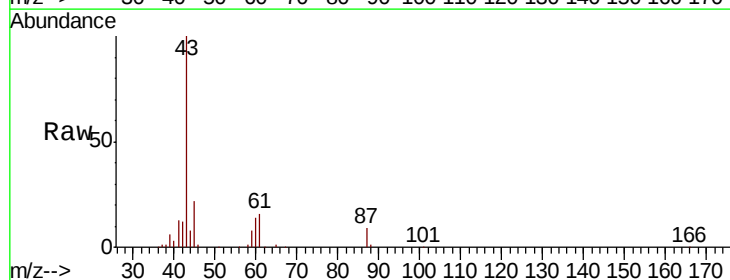
Tgt Ion: 43 Resp: 269911

Ion Ratio Lower Upper

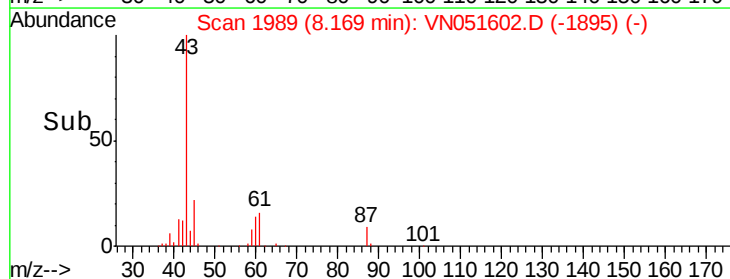
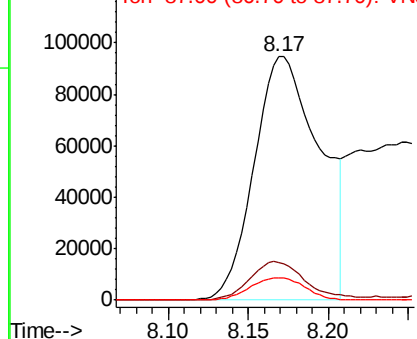
43 100

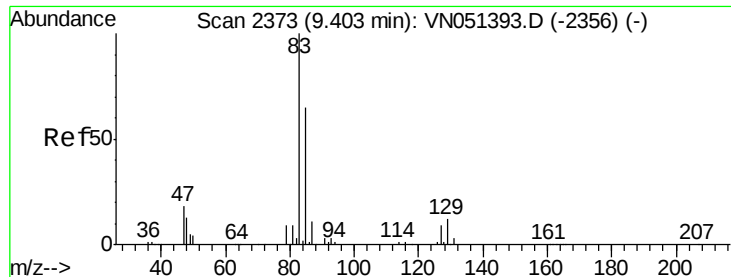
61 13.4 16.8 25.2#

87 7.7 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.483 ug/l

RT: 9.41 min Scan# 2374

Delta R.T. 0.00 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

MT-T-5-2

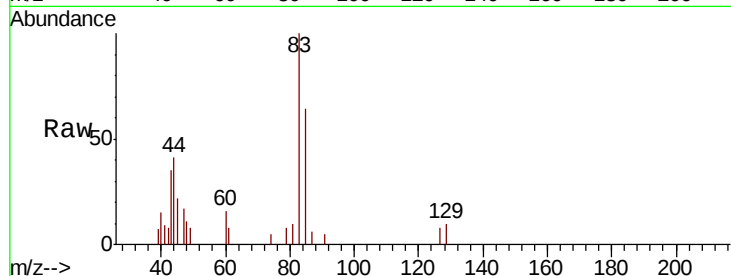
Tot Ion: 83 Resp: 5810

Ion Ratio Lower Upper

83 100

85 64.0 51.8 77.6

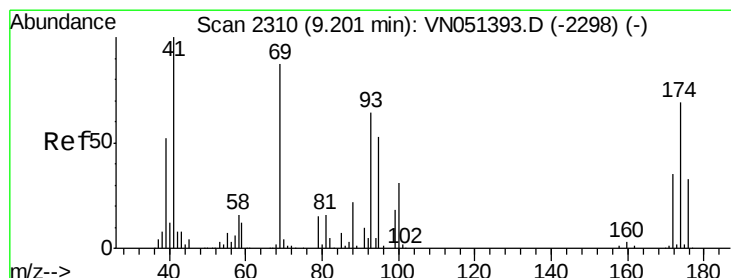
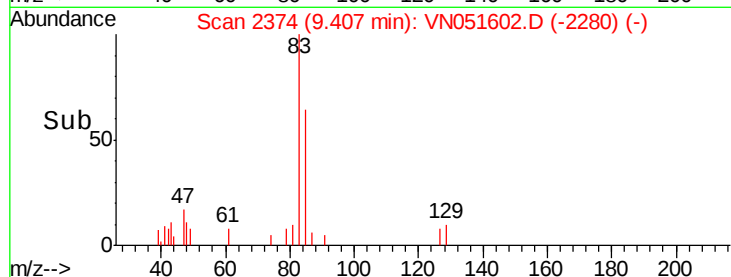
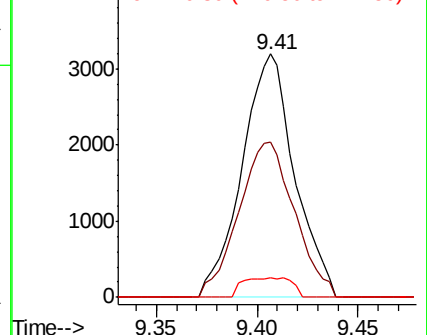
127 7.8 7.4 11.2



Abundance Ion 82.90 (82.60 to 83.60): VN051393.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051393.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051393.D (-2356) (-)



#48

Methyl methacrylate

Concen: 0.633 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

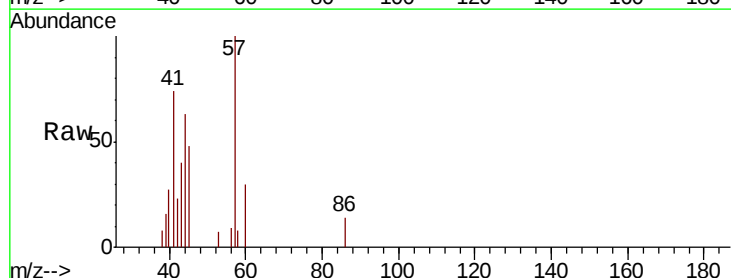
Tgt Ion: 41 Resp: 3953

Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

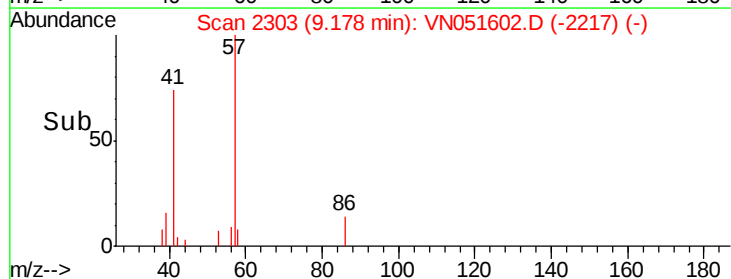
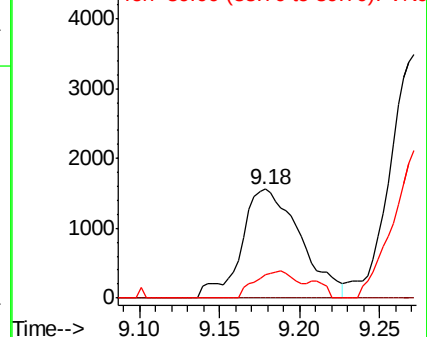
39 17.8 43.8 65.8#

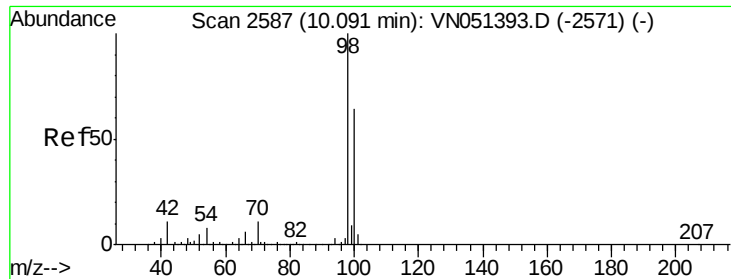


Abundance Ion 41.00 (40.70 to 41.70): VN051393.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051393.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051393.D (-2298) (-)





#50

Toluene-d8

Concen: 45.692 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_N

ClientSampled :

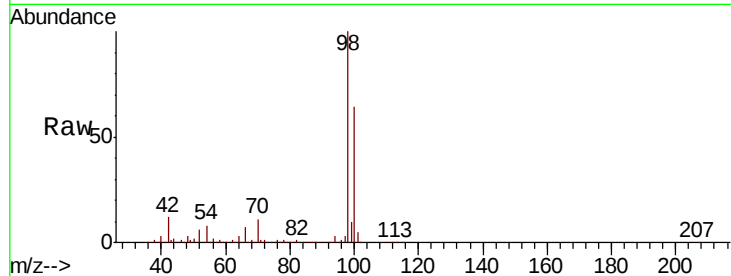
MT-T-5-2

Tot Ion: 98 Resp: 1430890

Ion Ratio Lower Upper

98 100

100 63.3 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051393.D (-2571) (-)

10.09

800000

600000

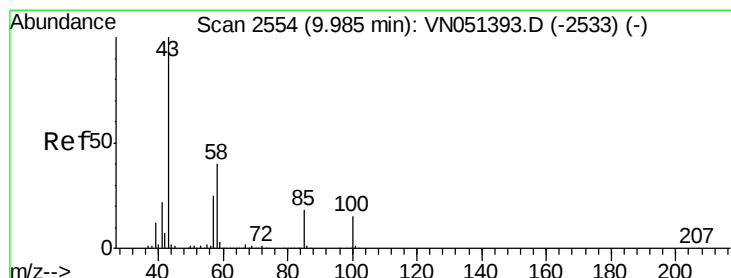
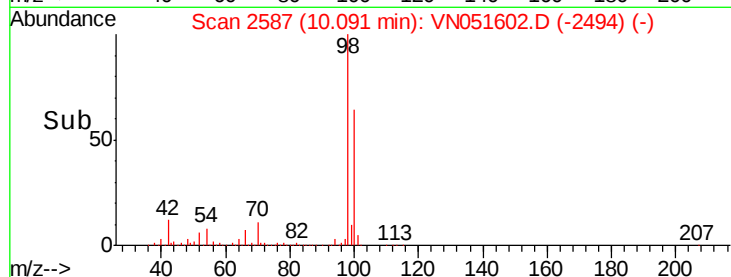
400000

200000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.281 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051602.D

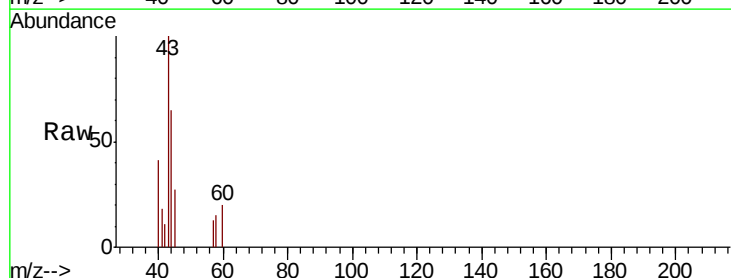
Acq: 27 Sep 2018 23:25

Tgt Ion: 43 Resp: 1933

Ion Ratio Lower Upper

43 100

58 21.2 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-2533) (-)

9.99

2000

1500

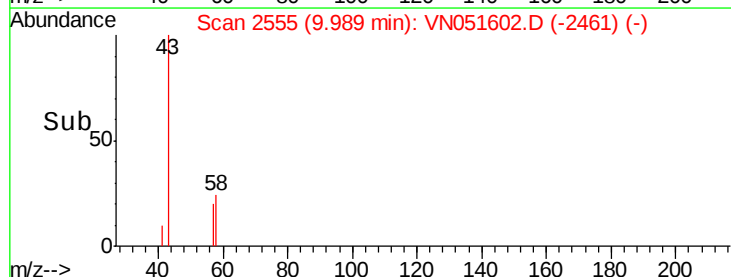
1000

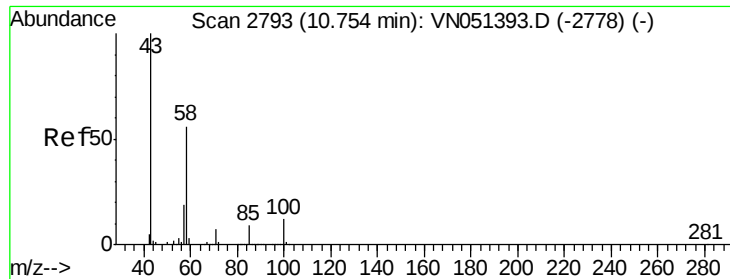
500

0

9.95 10.00

Time-->

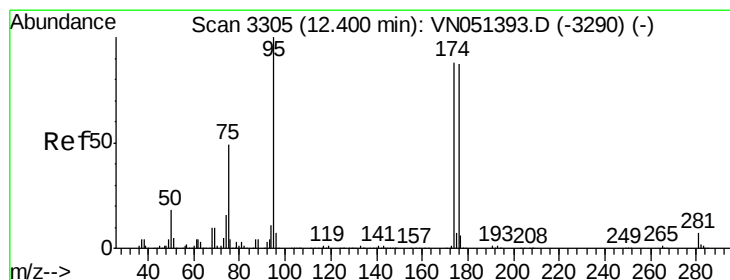
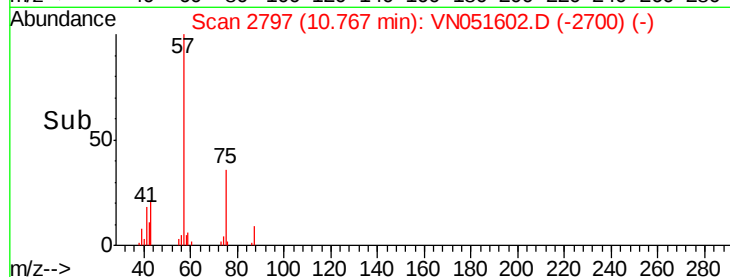
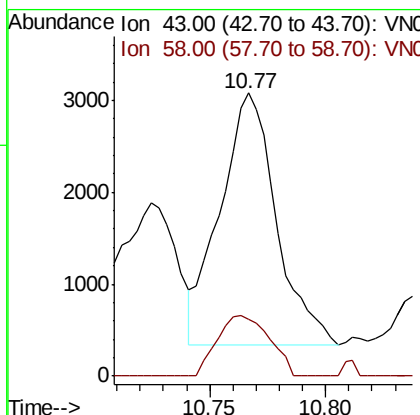
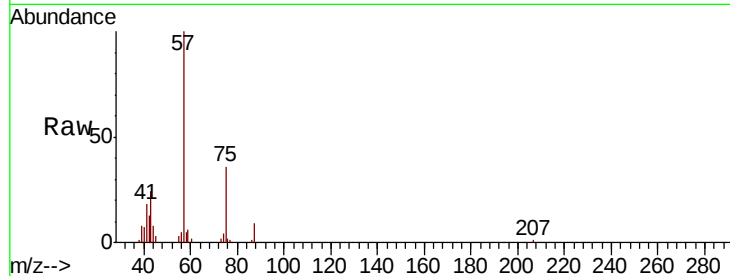




#59
2-Hexanone
Concen: 1.037 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

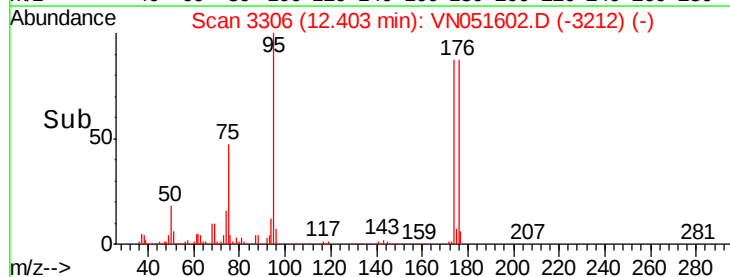
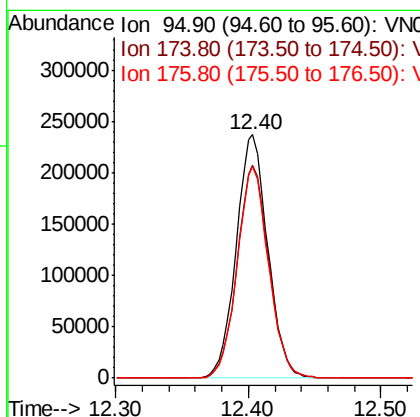
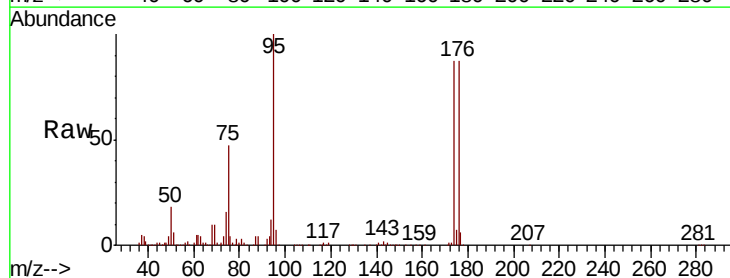
Instrument :
MSVOA_N
ClientSampled :
MT-T-5-2

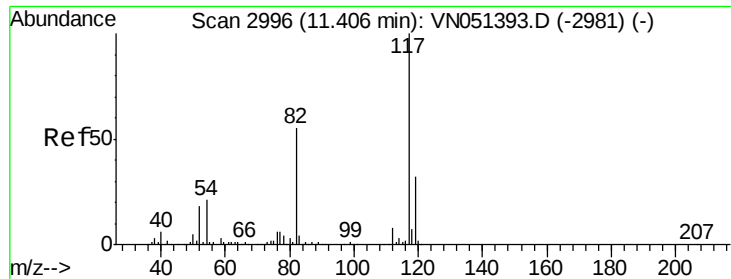
Tot Ion: 43 Resp: 4629
Ion Ratio Lower Upper
43 100
58 22.3 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.761 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Tgt Ion: 95 Resp: 392668
Ion Ratio Lower Upper
95 100
174 88.0 0.0 181.6
176 86.2 0.0 176.4

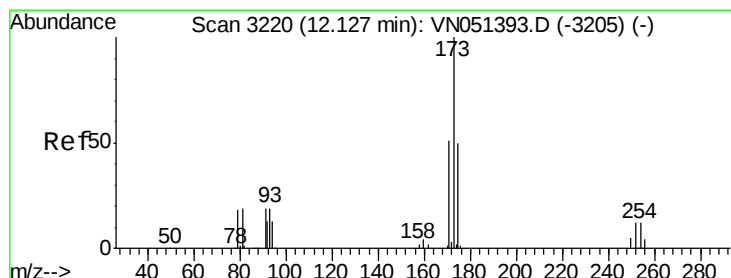
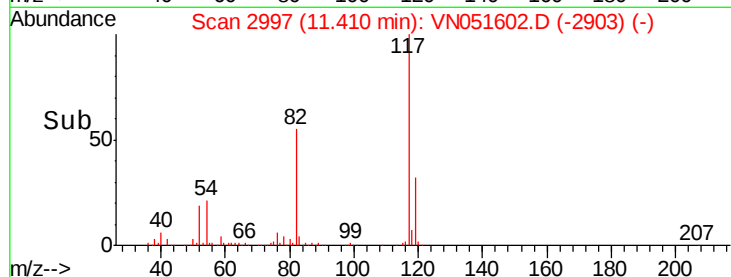
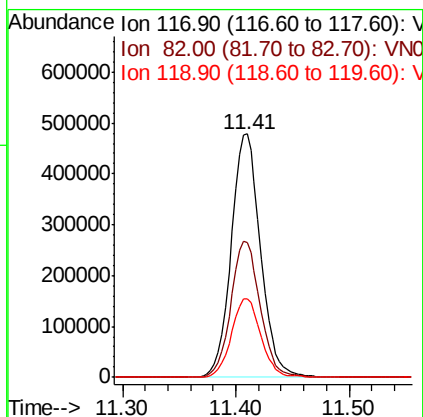
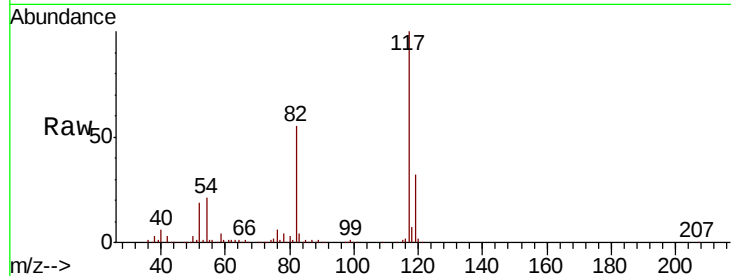




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

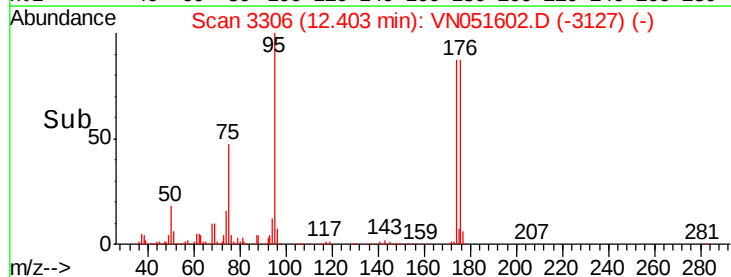
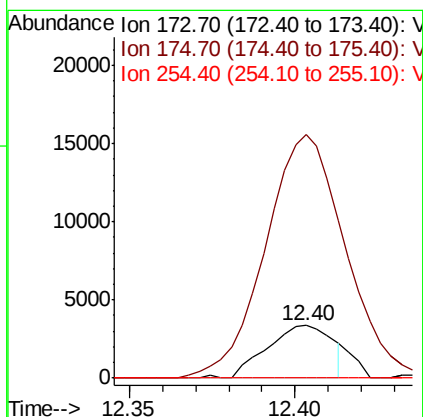
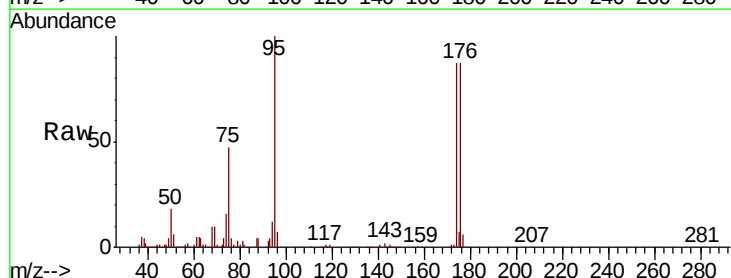
Instrument :
MSVOA_N
ClientSampleId :
MT-T-5-2

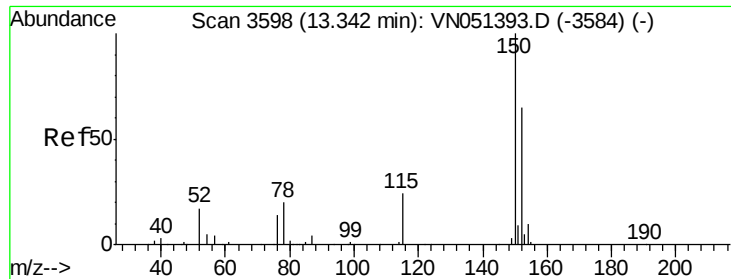
Tot Ion:117 Resp: 860222
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 32.4 25.9 38.9



#71
Bromoform
Concen: 0.808 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Tgt Ion:173 Resp: 4610
Ion Ratio Lower Upper
173 100
175 475.7 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051602.D

Acq: 27 Sep 2018 23:25

Instrument :

MSVOA_N

ClientSampleId :

MT-T-5-2

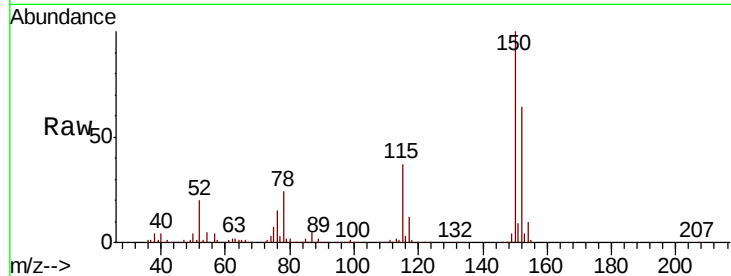
Tot Ion:152 Resp: 319203

Ion Ratio Lower Upper

152 100

115 57.8 28.3 84.9

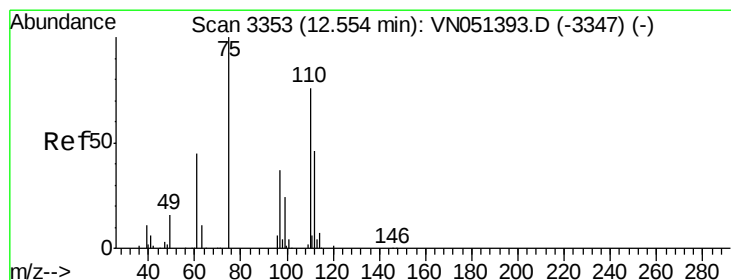
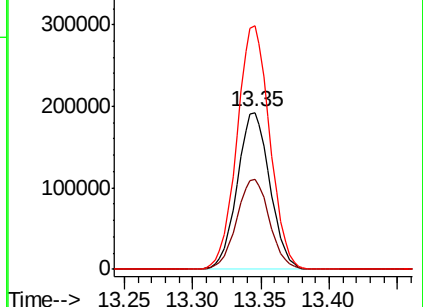
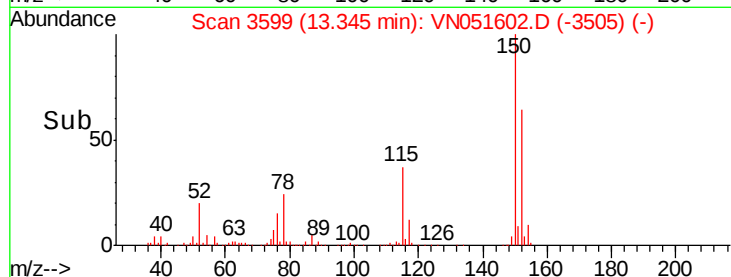
150 155.9 0.0 353.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 36.363 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051602.D

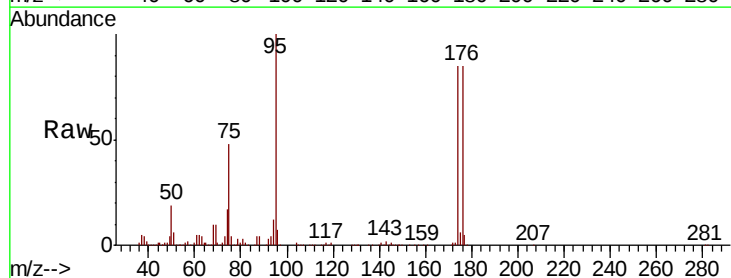
Acq: 27 Sep 2018 23:25

Tgt Ion: 75 Resp: 192689

Ion Ratio Lower Upper

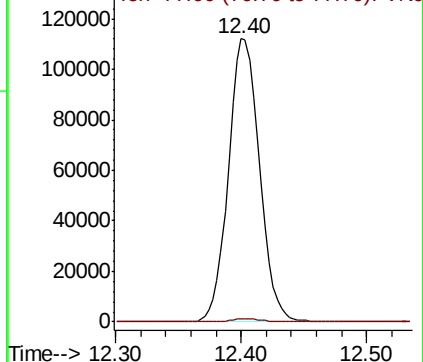
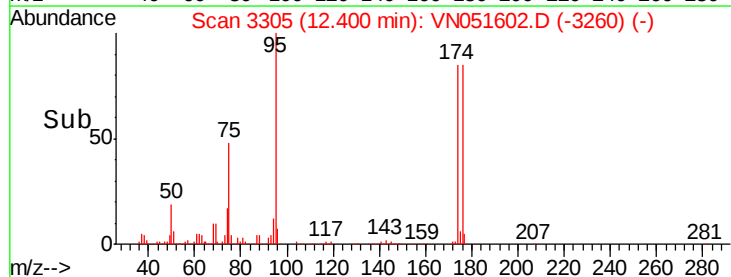
75 100

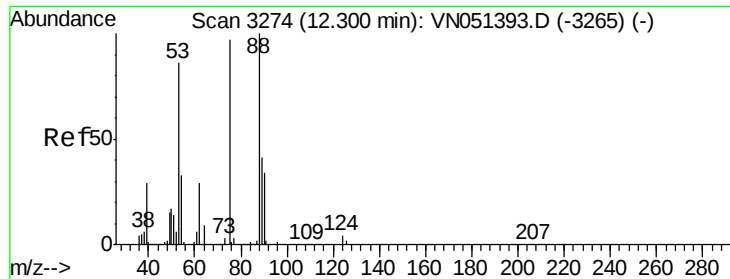
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

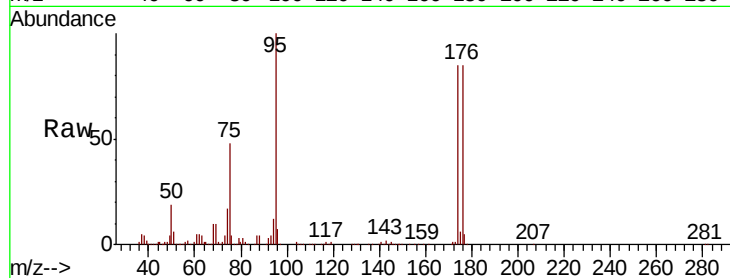




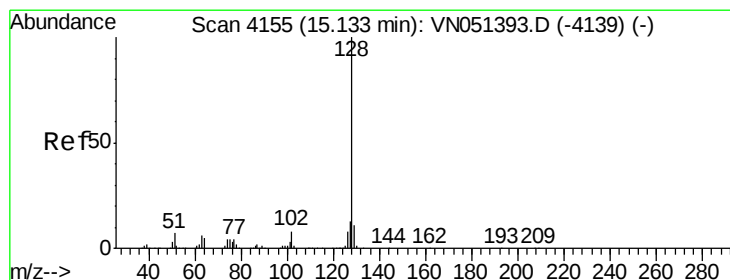
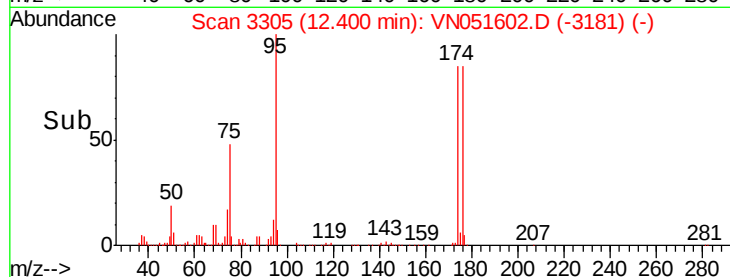
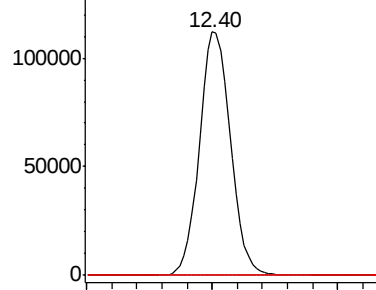
#81
trans-1,4-Dichloro-2-butene
Concen: 111.815 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Instrument :
MSVOA_N
ClientSampled :
MT-T-5-2

Tot Ion: 75 Resp: 192689
Ion Ratio Lower Upper
75 100
53 0.2 73.9 110.9#
89 0.0 36.7 55.1#

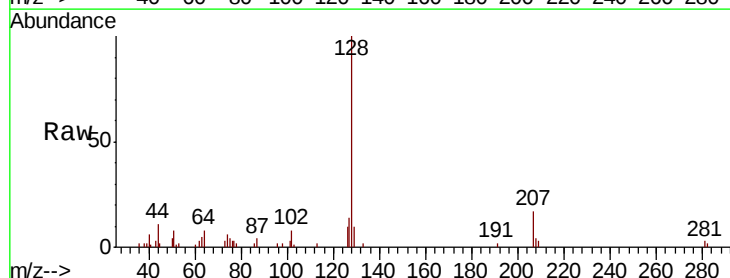


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 9.489 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051602.D
Acq: 27 Sep 2018 23:25

Tgt Ion: 128 Resp: 20434
Ion Ratio Lower Upper
128 100
127 12.7 10.5 15.7
129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

